

## EAST Search History

### EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	397	(b04b9/06 or b04b009/06). ipcr,ipc.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/02/05 09:25
L2	7905	((494/24) or (494/36) or (494/43) or (494/49) or (494/56) or (494/64) or (494/65) or (494/67) or (494/83) or (494/84) or (494/901) or (210/168) or (210/171) or (210/232) or (210/360.1) or (210/380.1) or (210/416.5) or (184/6.24)).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/02/05 09:25
L3	328	(1 or 2) and @pd>"20080828"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/02/05 09:27

L4	94	"1720475"   "1844611"   "20010016549"   "20020034347"   "20020045526"   "20020049126"   "20020088445"   "20020107132"   "20020119882"   "20020119883"   "20020128140"   "20030162645"   "20040023782"   "20040157719"   "20050020428"   "20050187091"   "20060229185"   "20060240965"   "20080051278"   "20080207423"   "2373349"   "2650022"   "2723079"   "2755992"   "2865562"   "3432091"   "3623657"   "3762633"   "3784092"   "3791576"   "3991935"   "4106689"   "4165032"   "4221323"   "4230581"   "4284504"   "4334994"   "4346009"   "4400167"   "4492631"   "5096581"   "5603829"   "5637217"   "5779618"   "5795477"	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/05 11:29
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		"5904841"   "5906733"   "6017300"   "6019717"   "6074336"   "6095964"   "6183407"   "6224531"   "6354987"   "6364822"   "6424067"   "6428700"   "6454694"   "6457868"   "6517475"   "6520902"   "6530872"   "6540653"   "6551230"   "6579218"   "6602180"   "6740026"   "6793615"   "6821241"   "6974408"   "7182724").PN. OR ("2006/0240965"   "2008/0051278"   "2009/0118111"   "2009/0272680"   "6454694"   "6530872"   "6974408"   "7182724"   "7377893"   "7393317"   "7396325"   "7553271"). URPN.				
L5	12	("3784092"   "3791576"   "5795477"   "5906733"   "6017300"   "6019717").PN. OR ("6454694").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/05 11:39
L6	2	((("5906733") or ("3784092")).PN.	USPAT	OR	OFF	2010/02/05 11:44

L7	184	(494/49).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/02/05 11:54
L8	362	((494/74) or (494/79)). CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/02/05 13:48
L9	14	7 and 8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/02/05 13:58
L11	724	(494/60).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/02/05 14:38
L12	93	((DIETER) near2 (BAUMANN)).INV.	US-PGPUB; USPAT	OR	OFF	2010/02/05 15:00
L13	6	((KARL) near2 (WIESMANN)).INV.	US-PGPUB; USPAT	OR	OFF	2010/02/05 15:00
L14	4	((NORBERT) near2 (PRINZ)).INV.	US-PGPUB; USPAT	OR	OFF	2010/02/05 15:00
S1	157	((494/24) or (494/36) or (494/43) or (494/49) or (494/64) or (494/65) or (494/67) or (494/84) or (494/901) or (210/168) or (210/171) or (210/232) or (210/360.1) or (210/380.1) or (210/416.5) or (184/6.24)).CCLS.) and @py>"2001"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2002/10/10 12:47

S3	157	((494/24) or (494/36) or (494/43) or (494/49) or (494/64) or (494/65) or (494/67) or (494/84) or (494/901) or (210/168) or (210/171) or (210/232) or (210/360.1) or (210/380.1) or (210/416.5) or (184/6.24)).CCLS.) and @py>="2002"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/11 16:48
S4	6002	((494/24) or (494/36) or (494/43) or (494/49) or (494/64) or (494/65) or (494/67) or (494/84) or (494/901) or (210/168) or (210/171) or (210/232) or (210/360.1) or (210/380.1) or (210/416.5) or (184/6.24)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/11 16:47
S12	6878	((494/24) or (494/36) or (494/43) or (494/49) or (494/64) or (494/65) or (494/67) or (494/84) or (494/901) or (210/168) or (210/171) or (210/232) or (210/360.1) or (210/380.1) or (210/416.5) or (184/6.24)).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/10/25 10:56

S13	693	S12 and @py>="2002"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/11 17:25
S14	485	S12 and @py>="2003"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/10/21 15:45
S15	308	b04b009/06	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/11 17:35
S16	724	b04b011/04	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/11 17:36
S17	16224	b04b\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/11 19:06
S18	1871	S17 and (valve or plug)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/11 17:36
S19	351	S18 and oil	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/11 17:37
S20	174	S16 and (valve or plug)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/11 17:45

S21	110	"0426275"   "1714658"   "2104162"   "2200202"   "2373349"   "2461674"   "2650022"   "2755992"   "2799448"   "2858941"   "2865562"   "3432091"   "3623658"   "3628343"   "3762633"   "3784092"   "3791576"   "3879294"   "3907686"   "3912633"   "3970243"   "4032451"   "4046315"   "4106689"   "4165032"   "4221323"   "4352739"   "4379053"   "4492631"   "4498898"   "4557831"   "4871458"   "5096581"   "5334309"   "5674392"   "5795477"   "5904841"   "5906733"   "6017300"   "6019717"   "6454694").PN. OR ("1720475"   "2002/0119882"   "3432091"   "3762633"   "3784092"   "4106689"   "4165032"   "4221323"   "5906733"   "6074336"   "6454694"   "6821241"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 18:11
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S22	2	("5603829").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/05/11 19:04
S24	771	S17 and "1994".py.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/11 19:07
S28	708	S26 and "1994".py.	EPO; JPO; DERWENT	OR	ON	2005/05/11 19:09
S31	90	(494/5).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/05/11 19:50
S32	7057	((494/24) or (494/36) or (494/43) or (494/49) or (494/64) or (494/65) or (494/67) or (494/83) or (494/84) or (494/901) or (210/168) or (210/171) or (210/232) or (210/360.1) or (210/380.1) or (210/416.5) or (184/6.24)).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/10/21 15:44
S33	349	S32 and @py>="2004"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/10/21 15:50



S34	19	"20010016549"   "20020034347"   "20020045526"   "20020049126"   "20020088445"   "20020107132"   "20020119883"   "20020128140"   "5637217"   "6095964"   "6224531"   "6354987"   "6428700"   "6457868"   "6517475"   "6520902"   "6530872"   "6551230"   "6579218").PN.	US-PGPUB; USPAT	OR	ON	2005/10/21 15:50
S35	314	b04b009/06	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/10/21 15:51
S36	953	b04b005/00	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/10/21 16:19
S37	896	b04b001/00	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/10/21 16:19

S38	153	(US-20010012814-\$ or US-20010016549-\$ or US-20010029227-\$ or US-20020045526-\$ or US-20020049126-\$ or US-20020107132-\$ or US-20020119882-\$ or US-20020119883-\$ or US-20020128140-\$ or US-20020142910-\$ or US-20020147096-\$ or US-20030078152-\$ or US-20030162645-\$ or US-20040023782-\$ or US-20040058795-\$ or US-20040152578-\$ or US-20040157719-\$ or US-20040214710-\$ or US-20050020428-\$ or US-20050037909-\$ or US-20050199533-\$ or US-20050187091-\$ or US-20040097358-\$ or US-20020088445-\$ or US-20020034347-\$).did. or (US-1720475-\$ or US-1844611-\$ or US-2076935-\$ or US-2265053-\$ or US-2321144-\$ or US-2335420-\$ or US-2650022-\$ or US-2723079-\$ or US-2750107-	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/10/21 18:31
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\$ or US-2792172-\$ or US-  
2799448-\$ or US-2865562-  
\$ or US-2976864-\$ or US-  
3343787-\$ or US-3385517-  
\$ or US-3432091-\$ or US-  
3572582-\$ or US-3666170-  
\$ or US-3762633-\$ or US-  
3784092-\$ or US-3879294-  
\$ or US-4046315-\$ or US-  
4106689-\$ or US-4165032-  
\$ or US-4221323-\$ or US-  
4230581-\$).did. or (US-  
4284504-\$ or US-4288030-  
\$ or US-4346009-\$ or US-  
4400167-\$ or US-4492631-  
\$ or US-4498898-\$ or US-  
4534860-\$ or US-4557831-  
\$ or US-4591433-\$ or US-  
4615315-\$ or US-4687572-  
\$ or US-4787975-\$ or US-  
4871458-\$ or US-5096581-  
\$ or US-5575912-\$ or US-  
5637217-\$ or US-5674392-  
\$ or US-5683342-\$ or US-  
5707519-\$ or US-5755657-  
\$ or US-5779618-\$ or US-  
5785849-\$ or US-5795477-  
\$ or US-5904841-\$ or US-  
5906733-\$ or US-5975245-  
\$ or US-6017300-\$).did. or  
(US-6019717-\$ or US-

6058899-\$ or US-6074336-  
\$ or US-6095964-\$ or US-  
6156193-\$ or US-6183407-  
\$ or US-6196962-\$ or US-  
6200252-\$ or US-6210311-  
\$ or US-6213928-\$ or US-  
6213929-\$ or US-6224531-  
\$ or US-6234949-\$ or US-  
6238331-\$ or US-6261455-  
\$ or US-6296765-\$ or US-  
6312372-\$ or US-6354987-  
\$ or US-6364822-\$ or US-  
6424067-\$ or US-6454694-  
\$ or US-6517475-\$ or US-  
6520902-\$ or US-6530872-  
\$ or US-6533712-\$ or US-  
6540653-\$ or US-6551230-  
\$).did. or (US-6579218-\$ or  
US-6579220-\$ or US-  
6599229-\$ or US-6602180-  
\$ or US-6620090-\$ or US-  
6652439-\$ or US-6702729-  
\$ or US-6709575-\$ or US-  
6740026-\$ or US-6793615-  
\$ or US-6821241-\$ or US-  
6929596-\$ or US-6893389-  
\$ or US-6457868-\$ or US-  
6428700-\$).did. or (DE-  
10110381-\$ or GB-  
2049494-\$ or GB-2113122-  
\$ or GB-2120134-\$ or GB-



S40	6971	((494/24) or (494/36) or (494/43) or (494/49) or (494/64) or (494/65) or (494/67) or (494/84) or (494/901) or (210/168) or (210/171) or (210/232) or (210/360.1) or (210/380.1) or (210/416.5) or (184/6.24)).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/29 16:11
S42	0	S40 and @py>="20050901"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/10/25 10:58
S43	150	S40 and @py>"2004"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/05 14:48
S47	6887	((494/24) or (494/36) or (494/43) or (494/49) or (494/64) or (494/65) or (494/67) or (494/84) or (494/901) or (210/168) or (210/171) or (210/232) or (210/360.1) or (210/380.1) or (210/416.5) or (184/6.24)).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/29 16:11

S49	6978	((494/24) or (494/36) or (494/43) or (494/49) or (494/64) or (494/65) or (494/67) or (494/83) or (494/84) or (494/901) or (210/168) or (210/171) or (210/232) or (210/360.1) or (210/380.1) or (210/416.5) or (184/6.24)).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/05 14:47
S50	241	S49 and @pd>"20051025"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/29 16:14
S51	340	b04b009/06	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/29 16:19
S52	7	("3784092"   "3791576"   "5795477"   "5906733"   "6017300"   "6019717"   "6454694").PN.	US-PGPUB; USPAT	OR	ON	2006/12/29 18:35
S54	6981	((494/24) or (494/36) or (494/43) or (494/49) or (494/64) or (494/65) or (494/67) or (494/83) or (494/84) or (494/901) or (210/168) or (210/171) or (210/232) or (210/360.1) or (210/380.1) or (210/416.5) or (184/6.24)).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/05 14:47

S55	218	S54 and @py>"2005"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/05 14:48
S57	850	b04b005/00	DERWENT	OR	ON	2007/03/19 17:20
S58	109	S57 and oil	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/03/19 17:20
S59	7060	((494/24) or (494/36) or (494/43) or (494/49) or (494/64) or (494/65) or (494/67) or (494/83) or (494/84) or (494/901) or (210/168) or (210/171) or (210/232) or (210/360.1) or (210/380.1) or (210/416.5) or (184/6.24)).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/07 08:34
S60	82	S59 and @py>"2006"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/07 10:34
S61	2	("6572523").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/07 10:34
S62	351	b04b009/06	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/07 10:34



S63	12	S62 and @py>"2006"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/07 10:36
S64	7166	((494/24) or (494/36) or (494/43) or (494/49) or (494/64) or (494/65) or (494/67) or (494/83) or (494/84) or (494/901) or (210/168) or (210/171) or (210/232) or (210/360.1) or (210/380.1) or (210/416.5) or (184/6.24)).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/10 16:06
S65	146	S64 and @pd>"20070301"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/10 16:11
S66	1	("4640772").PN.	USPAT	OR	OFF	2008/01/10 16:11
S67	7536	((494/24) or (494/36) or (494/43) or (494/49) or (494/56) or (494/64) or (494/65) or (494/67) or (494/83) or (494/84) or (494/901) or (210/168) or (210/171) or (210/232) or (210/360.1) or (210/380.1) or (210/416.5) or (184/6.24)).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/04/22 20:33

S68	62	S67 and @py>"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/04/22 20:33
S69	160	b04b009/06	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/04/22 20:35
S70	0	S69 and @py>"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/04/22 20:35
S71	4	("2755992"   "20030162645"   "20040157719"   "6364822").PN.	US-PGPUB; USPAT	OR	ON	2008/04/22 21:08
S72	202	("0882119"   "0955890"   "0993791"   "1006662"   "1038607"   "1136654"   "1151686"   "1232811"   "1293114"   "1422852"   "1482418"   "1525016"   "1784510"   "20010016549"   "20020034347"   "20020045526"   "20020049126"   "20020088445"   "20020107132"   "20020119883"   "20020128140"   "20030162645"   "20050187091"   "2031734"   "2053856"   "2087778"	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/22 21:28

"2129751"	"2129992"
"2256951"	"2302381"
"2305469"	"2321144"
"2335420"	"2485390"
"2578485"	"2647686"
"2665060"	"2725190"
"2735614"	"2738923"
"2745217"	"2752090"
"2755017"	"2755992"
"2865562"	"2973896"
"3007629"	"3036759"
"3080109"	"3187998"
"3223315"	"3228597"
"3273324"	"3335946"
"3403848"	"3430853"
"3432091"	"3666170"
"3762633"	"3784092"
"3791576"	"3823869"
"3858793"	"3879294"
"3971508"	"3990631"
"4067494"	"4106689"
"4142671"	"4150580"
"4165032"	"4210276"
"4221323"	"4230581"
"4262841"	"4284504"
"4288030"	"4325825"
"4346009"	"4400167"
"4427407"	"4431540"
"4460352"	"4468269"
"4492631"	"4498898"
"4508530"	"4547185"

"4557831"	"4615315"
"4698053"	"4731545"
"4787975"	"4824429"
"4861329"	"4891041"
"4915682"	"4950130"
"4961724"	"5045049"
"5052996"	"5085783"
"5096581"	"5169065"
"5213260"	"5342279"
"5354255"	"5362292"
"5364335"	"5374234"
"5387174"	"5484383"
"5494579"	"5575912"
"5637217"	"5656164"
"5674392"	"5683342"
"5707519"	"5779618"
"5785849")	PN. OR
("5795477"	"5882289"
"6017300"	"6019717"
"6095964"	"6183407"
"6196962"	"6210311"
"6213929"	"6224531"
"6261455"	"6296765"
"6354987"	"6424067"
"6428700"	"6457868"
"6517475"	"6520902"
"6530872"	"6551230"
"6579218")	PN. OR
("2008/0051278"	
"6224531"	"6234949"
"6238331"	"6364822"

		"6520902"   "6579218"   "7182724"   "RE38855"). URPN.				
S73	359	((494/74) or (494/79)). CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/04/26 21:05
S74	157	b04b007/12	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/04/26 21:15
S75	7661	((494/24) or (494/36) or (494/43) or (494/49) or (494/56) or (494/64) or (494/65) or (494/67) or (494/83) or (494/84) or (494/901) or (210/168) or (210/171) or (210/232) or (210/360.1) or (210/380.1) or (210/416.5) or (184/6.24)).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/11/21 13:42
S76	155	S75 and @pd>"20080228"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/11/21 13:43
S77	369	(b04b9/06 or b04b009/06). ipcr,ipc.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/11/21 13:55
S78	583	(b04b5/12 or b04b005/12). ipcr,ipc.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/11/21 14:03

S79	2857	(b04b5/00 or b04b005/00). ipcr,ipc.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/11/21 14:04
S80	2556	(f16k17/00 or f16k017/00). ipcr,ipc.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/11/21 14:07
S81	0	2004de-2008785.ap,prai.	DERWENT	OR	ON	2008/11/21 14:12
S82	0	2004de-4008785.ap,prai.	DERWENT	OR	ON	2008/11/21 14:13
S83	0	2004de-0008785.ap,prai.	DERWENT	OR	ON	2008/11/21 14:13
S84	2	("20020119882"   "20040157719").PN.	US-PGPUB; USPAT	OR	ON	2008/11/21 15:41
S85	7732	((494/24) or (494/36) or (494/43) or (494/49) or (494/56) or (494/64) or (494/65) or (494/67) or (494/83) or (494/84) or (494/901) or (210/168) or (210/171) or (210/232) or (210/360.1) or (210/380.1) or (210/416.5) or (184/6.24)).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/04/07 15:16
S86	121	S85 and @pd>"20080828"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/04/07 15:17

S87	177	(494/49).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/04/07 15:20
S88	0	S87 and @pd>"20080828"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/04/07 15:20
S89	374	(b04b9/06 or b04b009/06). ipcr,ipc.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/04/07 15:22
S90	14	S89 and @pd>"20080828"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/04/07 15:23

### EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L10	726	((494/24) or (494/36) or (494/43) or (494/49) or (494/56) or (494/64) or (494/65) or (494/67) or (494/83) or (494/84) or (494/901) or (210/168) or (210/171) or (210/232) or (210/360.1) or (210/380.1) or (210/416.5) or (184/6.24)).CCLS.	US-PGPUB; UPAD	OR	OFF	2010/02/05 13:59

**2/5/2010 3:15:52 PM**

**C:\Documents and Settings\ccooley\My Documents\EAST\Workspaces\10592930.wsp**